

BEAM CIRCLES GLOBE, CLAIM OF MARCONI

TELLS RADIO ENGINEERS

Reports That He Has Succeeded in Sending Radio Wave Around Earth; Describes Operation

Senator Guglielmo Marconi, inventor of wireless, told the Institute of Radio Engineers and the American Institute of Electrical Engineers at a dinner recently held in New York that he has succeeded in girdling the globe with a radio beam, according to the Christian Science Monitor. At the same time he showed them lantern slides of powerful stations by which the feat had been accomplished. Mr. Marconi was a guest of the two societies, which he addressed on the advance and progress of wireless.

The first experiments conducted with the beam radio, he said, were in crude platforms and framework erected in 1912. These experiments convinced him that the beam system, now used successfully, was practical. He said one of the biggest problems, however, and one that has not yet been overcome, is fading, especially in connection with the employment of short waves, although his experience had convinced him that fading was also serious on wavelengths between 200 and 1000 meters.

Fading Frequent
"Fading has always been more frequent and more severe on the England-Canada circuit than on any of the others," he said. "It may be noticed that our Canadian service is also our shortest distance service, that it is mostly across the sea and that the Canadian is the one which happens to be nearest to the north magnetic pole."

"It frequently occurs that when the Canadian communication fades out for some hours on end, the other services to Australia, India and South America, which use similar wavelengths, continue with undiminished efficiency. It has also been noticed that the times of bad fading practically always coincide with the appearance of large sunspots and intense aurora borealis, usually accompanied by magnetic storms and at the same periods when cables and land lines experience difficulties or are thrown out of action."

"We have also frequently noticed that during these periods signals could be received on a shorter wavelength and the one usually employed, often on a 16-meter wave, when a

26-meter wave would not come through.

Reception of Waves
"As is now generally known, very short waves of 16 meters and under can be better received at long distances by daylight and in summer time than during winter or at night, and we also know that very long waves are not affected by daylight. "If we assume that long waves may be classed between 5000 and 30,000 meters, and short waves between 5 and 500 meters, then by applying the basis of a rule proposed for the consideration of the international radio telegraph conference at Washington, we find that 3700 wave bands or channels would be practicable and permissible for the short waves but only 90 for the long waves."

G. O. P. COMMITTEE MEETS IN DECEMBER

Will Fix Time and Place of Convention and Talk Candidates

While the meeting of the Republican National committee in Washington, December 6 and 7, which Chairman William M. Butler has called, will devote itself primarily to the selection of the city in which the national convention is to be held, it is inevitable the influence of that meeting will run beyond the bounds of the formal notice. This is not saying that the committee will attempt to designate or select a nominee; indeed, it is more likely it will reassert that the province of the committee is to elect, and not select, candidates but it will be surprising if this gathering does not give some indication as to which way the wind is blowing.

It is a rather natural conclusion that the members from "favorite son" states, and those who have a leaning towards some of the Big Four possibilities, may seek to test the strength of their positions, not in the committee room, but in their conversations with their fellow party representatives assembled in Washington. For all of that, however, it can be again said that the meeting will close as it began without any demonstration having been made for any one of the Big Four candidates which will be important or significant enough to have cleared the way.

This political indecision, as to the identity of the candidate is not as dangerous as some people seem inclined to think. The convention is still seven months away, and election day a year. This is the proper time for inspection, review, consideration and discussion of the candidates, and the party will be none the worse for this indecision as to the actual nominee.

COAL OUTPUT GAINS IN ILLINOIS OF LATE

GETTING BACK TO NORMAL

Conditions in State Mining Regions Improving Since the Strike Was Settled Says Report

Coal mining conditions in Illinois are rapidly getting back to normal, according to reports received by Director A. D. Lewis of the Department on Mines and Minerals.

During September 12 additional mines in the state resumed operations after a shutdown of more than five months. This resulted in employment being furnished to 2,171 miners over the record of August. The reports for the month show 68 mines in operation in the state with a total of 7,772 miners employed. A slight increase in the number of working days is also shown, being 19.9 for the month of September, as compared to 17.8 during August.

St. Clair Holds Lead

Among the counties of the state St. Clair holds the record for the number of mines in operation, reporting a total of 16. Fulton takes second place with 10, while five mines are reported in operation in each Madison, Vermillion and Williamson counties. Other counties report as follows: three each in Randolph, Perry and Saline; two each in Christian, Jackson, Marion, Peoria and Tazewell, with one each in Gallatin, Knox, LaSalle, Macon, Macoupin, White and Woodford.

During the month 957,303 tons of coal were mined, being 50 per cent greater than during the three months of April, May and June, and practically equal to the production in the state for the months of July and August.

Three Fatal Accidents

Three fatal accidents were reported in the state during the month, one each in Peoria, Perry and Randolph counties. During the same period 147 miners suffered injuries which resulted in loss of time from their employment. Knox and Macoupin counties were the only mining sections in which no injuries or fatalities were reported.

For the nine months period of 1927 a total of 65 miners have lost their lives, while 8,728 suffered injuries. An accident has resulted on the average for each 3,282 tons of coal mined. The month of September showed the highest average of any month of the year, 6,512 tons of coal being mined.

SAFE DRIVING HINTS ARE GIVEN MOTORISTS

Begin by Opening Garage Doors Before Starting Car; Other Suggestions

"Safe driving begins with the opening of the garage doors when the motorist goes out in the morning to get his car for the trip to the office, factory or store," says Charles M. Hayes, president of the Chicago Motor club, who advocates a daily inspection of the individual car in the interest of reducing traffic accidents. "This practice serves not only to acquaint the driver with the condition of his car, but starts him away from the garage with the thought of safety in his consciousness," points out Mr. Hayes.

"Statistics, attributing traffic mishaps to mechanical defects in the car, are questioned by some authorities, but it is unquestionably true that defective tires, brakes, steering and other car features are a distinct menace to safety.

"A daily inspection by each motorist will go far toward the elimination to make such a test. If, the minute he opened the garage doors, the motorist were to glance over the four tires, he could tell, with fair accuracy whether they were in good condition. Before going a block from home, he could give the brakes a thorough test. The same is true of the car's steering apparatus.

"The engine, of course, also should be submitted to tests. Modern traffic demands a smooth-running, powerful and snappy motor performance.

"If each motorist were to make these tests and act immediately when defects were revealed, a long stride toward safety would have been taken," concludes Mr. Hayes.

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